



HF-102  
Wideband  
RF/Pulse  
Transformer  
.5-1000 MHz



## DESCRIPTION

The HF series is a line of eight transformers offering all popular configurations in our popular six pin molded epoxy package. These transformers are high reliability devices designed to meet MIL-T-55631.

Typical applications are: Interstage coupling, phase detection and pulse transformation.

## GUARANTEED MINIMUM PERFORMANCE DATA

### SPECIFICATIONS FOR MODEL HF-102

Type: 50 ohm unbalanced  
12.5 ohm unbalanced  
- 2 dB Bandwidth, MHz .5-1000  
Midband insertion loss dB .75  
VSWR (- 2 dB point) 2.5:1

### NOTE:

- 1 dB bandwidth is measured relative to midband loss.

### ABSOLUTE MAXIMUM RATINGS:

Input power 2 w. limited by  
( $I_{DC}^2 + I_{RF}^2$ )Z  $\leq$  Pmax.  
Temperature range - 54°C to  
+ 100°C

## ENVIRONMENTAL CONDITIONS

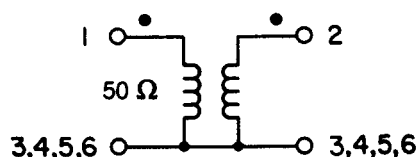
### GUARANTEED ENVIRONMENTAL PERFORMANCE:

All units are designed to meet their specifications over - 54°C to + 100°C and after exposure to any or all of the following tests per MIL-STD-202E.

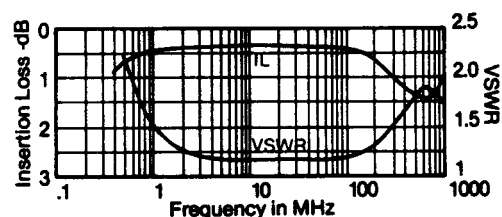
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

## FUNCTIONAL SCHEMATIC



## TYPICAL PERFORMANCE



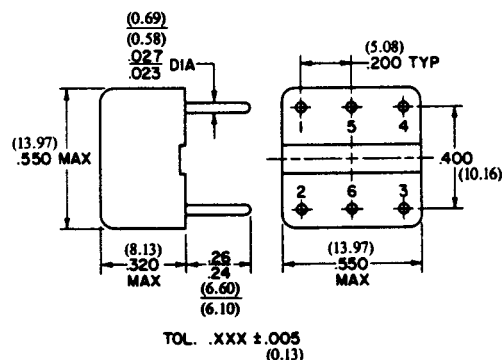
## PACKAGE

### MATERIAL:

Header: Diallyl Phthalate  
Leads: Phosphor Bronze, Grade A, Spring temper

### FINISH:

Header: Glossy red Diallyl Phthalate  
Leads: Silver plated per QQ-S-365A, Type I, Grade B



Specifications subject to  
change without notice.

8.10.04 Rev. A